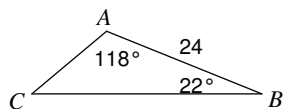


The Law of Sines

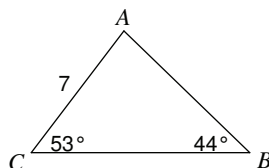
Date _____ Period ____

Find each measurement indicated. Round your answers to the nearest tenth.

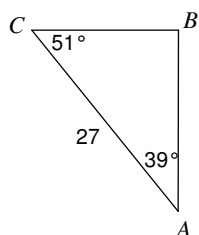
1) Find AC



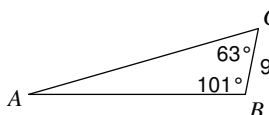
2) Find AB



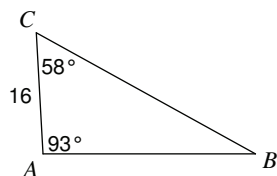
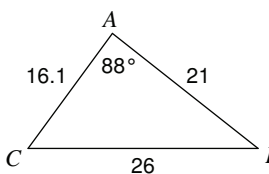
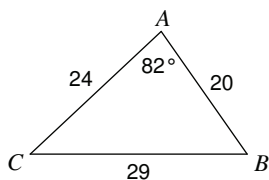
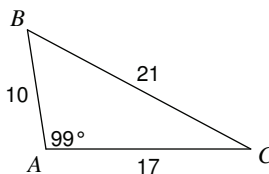
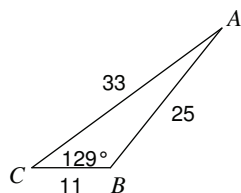
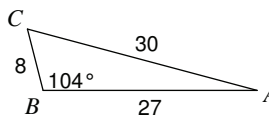
3) Find BC



4) Find AB



5) Find BC

6) Find $m\angle C$ 7) Find $m\angle C$ 8) Find $m\angle C$ 9) Find $m\angle A$ 10) Find $m\angle A$ 

Solve each triangle. Round your answers to the nearest tenth.

11) $m\angle A = 70^\circ$, $c = 26$, $a = 25$

12) $m\angle B = 45^\circ$, $a = 28$, $b = 27$

13) $m\angle C = 145^\circ$, $b = 7$, $c = 33$

14) $m\angle B = 73^\circ$, $a = 7$, $b = 5$

15) $m\angle B = 117^\circ$, $a = 16$, $b = 38$

16) $m\angle B = 84^\circ$, $a = 18$, $b = 9$

17) $m\angle B = 105^\circ$, $b = 23$, $a = 14$

18) $m\angle C = 13^\circ$, $m\angle A = 22^\circ$, $c = 9$

19) $m\angle B = 80^\circ$, $m\angle C = 54^\circ$, $b = 11$

20) $m\angle C = 29^\circ$, $b = 25$, $c = 21$

State the number of possible triangles that can be formed using the given measurements.

21) $m\angle C = 63^\circ$, $b = 9$, $c = 12$

22) $m\angle B = 33^\circ$, $a = 27$, $b = 22$

23) $m\angle B = 29^\circ$, $a = 14$, $b = 19$

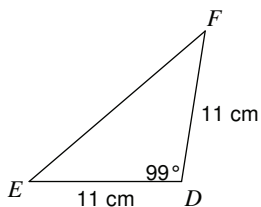
24) $m\angle B = 95^\circ$, $b = 24$, $a = 5$

25) $m\angle A = 29^\circ$, $c = 18$, $a = 17$

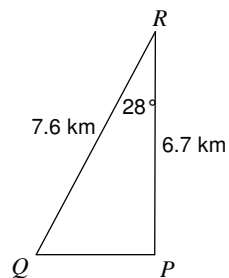
26) $m\angle B = 35^\circ$, $a = 24$, $b = 6$

Find the area of each triangle to the nearest tenth.

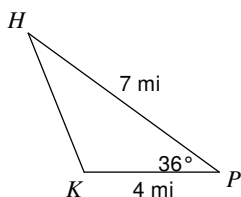
27)



28)



29)



30)

